IT SHOULD BE NOTED THAT ALL DRINKING WATER, INCLUDING BOTTLED DRINKING WATER, MAY REASONABLY BE EXPECTED TO CONTAIN AT LEAST SMALL OF SOME CONTAMINANTS. THE PRESENCE OF CONTAMINANTS DOES NOT CALLING THE EPA'S SAFE DRINKING WATER HOTLINE (1-800-426-4791) OR THE ABOUT CONTAMINANTS AND POTENTIAL HEALTH RISK. MORE INFORMATION DECESSARILY INDICATE THAT WATER POSES A HEALTH RISK. MORE INFORMATION ABOUT CONTAMINANTS AND POTENTIAL HEALTH RISK. MORE INFORMATION DECESSARILY INDICATE THAT WATER POSES A HEALTH RISK. MORE INFORMATION AND POSES AND POSES

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OUALITY TESTING FROM THE DISTRIBUTION SYSTEM.

CONSUMPTION OF SOAP.

THE HARDNESS OF OUR WATER IS CONSIDERED LOW (SOFT). WE AVERAGE 23 PPM. HARDNESS EXPRESSED AS CALCIUM CARBONATE (CACO3), INCREASES THE

PURPOSES.

SCWA PROVIDES TREATMENT AT ALL WELLS TO IMPROVE THE OUALITY OF THE WATER PUMPED PRIOR TO DISTRIBUTION TO THE CONSUMER. THE PH OF THE PUMPED WATER AND WATER MAINS AND IN-HOUSE PLUMBING BY THE ADDITION OF LIME THE WATER AND WATER MAINS AND IN-HOUSE PLUMBING BY THE ADDITION OF LIME (CALCIUM HYDROXIDE). CHLORINE IS ALSO ADDED TO THE WATER FOR DISINFECTING

AS THE STATE REGULATIONS REQUIRE, WE ROUTINELY TEST YOUR DRINKING WATER FOR NUMEROUS CONTAMINANTS. THESE CONTAMINANTS INCLUDE: TOTAL CONTAMINANTS DO NOT CHANGE FREQUENTY. SOME OF OUR DATA THESE CONTAMINANTS THAT WERE NOT FOUND IN YOUR DRINKING WATER. WE HAVE ALSO TESTED FOR SOME LIST CAN BE OBTAINED FROM OUR OFFICE. THE STATE ALLOWS US TO TEST FOR SOME CONTAMINANTS THAT WERE NOT FOUND IN YOUR DRINKING WATER. WE HAVE ALSO TESTED FOR OTHER CONTAMINANTS THAT WERE NOT FOUND IN YOUR DRINKING WATER. WE HAVE ALSO TESTED FOR OTHER CONTAMINANTS THAT WERE NOT FOUND IN YOUR DRINKING WATER. WE HAVE ALSO TESTED FOR OTHER CONTAMINANTS THAT WERE NOT FOUND IN YOUR DRINKING WATER. WE HAVE ALSO TESTED FOR OTHER CONTAMINANTS THAT WERE NOT FOUND IN YOUR DRINKING WATER. WE HAVE ALSO TESTED FOR SOME CONTAMINANTS THAT WERE DETECTED TO THAT THE STATE ALSO TESTED FOR SOME LIST CAN BE OBTAINED FROM OUR OFFICE. THE STATE ALSO TEST FOR SOME CONTAMINANTS ON THAT WERE DETECTED TO THAT WERE DETECTED TO THEST TO THAT WE WE OBTAINED FROM OUR OFFICE. THE STATE ALSO TEST FOR SOME CONTAMINANTS THAT WERE THAN A YEAR OLD.

## ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

BILLS ARE MAILED QUARTERLY.

THE 5T. JAMES WATER DISTRICT WAS FORMED IN 1945 AS A MUNICIPAL WATER DISTRICT, AND ROUGHLY COVERS THE SAME BOUNDARIES AS THE 5T JAMES FIRE DISTRICT. WE HAVE ABOUT 59 MILES OF WATER MAIN, AND 460 FIRE HYDRANTS OF PRIVATED ORANGE AND SILVER). WE SERVE ABOUT 11,200 people through 3,364 connections. The total amount of water mithdrawn in 2013 was 615 million gallons, of which approximately 97% was billed directly to the customers. The rest is used for water main breaks, the directly to the customers. The rest is used for water main breaks, the directly to the customers. The rest is used for water main breaks, the directly to the customers. The directly to the customer being directly and the consumer being directly and the customer directly and the custom

## FACTS AND FIGURES

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THE ST. JAMES WATER DISTRICT PURCHASES ITS WATER FROM THE SUFFOLK COUNTY WATER AUTHORITY (SCWA). SCWA MAINTAINS OVER 500 PUBLIC SUPPLY TIONS WITH SUFFOLK COUNTY. WE HAVE ELEVEN (11) INTERCONNECTIONS WITH SUFFOLK COUNTY. WE HAVE ELEVEN (11) INTERCONNECTION OF OUR WATER SERVICE.

OUR WATER SOURCE COMES FROM BENEATH THE GROUND AND IS REFERRED TO AS GROUNDWATER. YOUR WATER IS STORED BENEATH THE GROUND IN A SANDY GEOLOGICAL FORMATION KNOWN AS THE AQUIFER SYSTEM. WATER IN THE AQUIFER SYSTEM. WATER IN THE DOWN THROUGH THE SOIL. THERE ARE THREE PRIMARY FORMATIONS THAT LIE DOWN THROUGH THE SOIL. THERE ARE THREE PRIMARY FORMATIONS THAT LIE FORMATIONS IN ORDER ARE: GLACIAL — WHICH CONTAINS THE NEWEST WATER TO THE FORMATIONS AND HOLDS THE MOST WATER, MOST OF IT BEING HUNDREDS OF YEARS GROUNDWATER SYSTEM, MAGOTHY — THIS IS THE LARGEST OF THE THREE FORMATIONS AND HOLDS THE MOST WATER, MOST OF IT BEING HUNDREDS OF YEARS OR OND AND HOLDS THE MOST WATER, MOST OF IT BEING HUNDREDS OF YEARS OR OND AND HOLDS THE MOST WATER, MOST OF IT BEING HUNDREDS OF YEARS OF OUR WATER, SOME THAT HAS BEEN HELD IN THE SYSTEM MORE THAN 5,000 YEARS. THE THREE SYSTEM, MAGOTHY ON THE SYSTEM SHORE, AND POPPROXIMATELY 600 FEET ON THE SYSTEM SHORE, AND HOLDS THE MOST WATER, SOME THAT HAS BEEN HELD IN THE SYSTEM SHORE THAN 5,000 YEARS. THE DEPTH OF THE LONG ISLAND AQUIFER SYSTEM IS APPROXIMATELY 600 FEET ON THE SYSTEM SHORE, AND ADDRESSEN SHORE THAN 5,000 YEARS. THE DEPTH OF THE LONG STAND HOLDS THE GLACIAL AND SHORE THAN 5,000 YEARS. THE MOST WATER, SOME THAT HOS BEEN HELD IN THE SYSTEM SHORE, MOST OF OUR NORTH SHORE, AND APPROXIMATELY SOME THAT HORD ADDRESSEN SHORE THAN 5,000 YEARS. THE DEPTH OF THE WASTER SYSTEM SHORE, AND ADDRESSEN SHORE THAT SHORE, MOST OF OUR NORTH SHORE, AND ADDRESSEN SHORE THAT SHORE, MOST OF OUR SHORE THAT SHORE, AND ADDRESSEN SHORE THAT SHORE SHORE

THE SAME PROTECTION FOR PUBLIC HEALTH.

IN GENERAL, THE SOURCES OF DRINKING WATER (BOTH TAP WATER AND BOTTLED WATER) INCLUDE RIVERS, LAKES, STREAMS, PONDS, RESERVOIRS, SPRINGS AND WATER) INCLUDE RIVERS LAKES, STREAMS, PONDS, RESERVOIRS, SPRINGS AND WELLS. AS WATER TRAVELS OVER THE SURFACE OF THE LAND OR THROUGH THE PRESENCE OF ANIMALY OCCURRING MINERALS AND, IN SOME CASES, REDIOACTIVE MATER INCLUDE: MICROBIAL CONTAMINANTS; INORGANIC CONTAMINANTS; INCLUDE: MICROBIAL CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC CHEMICAL CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC CHEMICAL CONTAMINANTS; INORGANIC CONTAMINANTS; INORGANIC

## WHERE DOES OUR WATER COME FROM?

We are pleased to report that our drinking water is safe and meets all federal and State requirements. If you have any questions about this seport or concerning your drinking water, please contact (631) 584-6202. If you want to learn more, please attend any of our regularly scheduled board of Water Commissioners meetings. Please call the Water District for a schedule of meetings and their locations.

QUALITY WATER.

THE 5T. JAMES WATER DISTRICT IS PLEASED TO PRESENT TO YOU THIS YEAR'S WATER OUR DISTRICT IN COMPLIANCE WITH FEDERAL AND STATE REGOLESS. THE BOARD OF WITH FEDERAL AND STATE REGOLETS WE MAKE TO CONTINUALLY IMPROVE THE WATER AND DEPENDABLE SUPPLY OF DRINKING WATER EVERYDAY. WE ALSO WANT YOU TO UNDERSTAND THE EFFORTS WE MAKE TO CONTINUALLY IMPROVE THE WATER TREATMENT PROCESS AND PROTECT OUR EVERYDAY. WE ALSO WANT YOU TO UNDERSTAND THE EFFORTS WE MAKE TO CONTINUALLY IMPROVE THE WATER TREATMENT PROCESS AND PISTRICT EMPLOYEES OUR DISTRICT EMPLOYEES. OUR DISTRICT EMPLOYEES AND PROFECT OUR WATER PROMINES AND DISTRICT EMPLOYEES.

## INTRODUCTION

# **TOWN BOARD MEMBERS:**

Patrick R. Vecchio, Supervisor Thomas J. Mc Carthy, Councilman Edward Wehrheim, Councilman Robert J. Creighton, Councilman Lynne C. Nowick, Councilwoman

WATER DISTRICT SUPERINTENDENT:

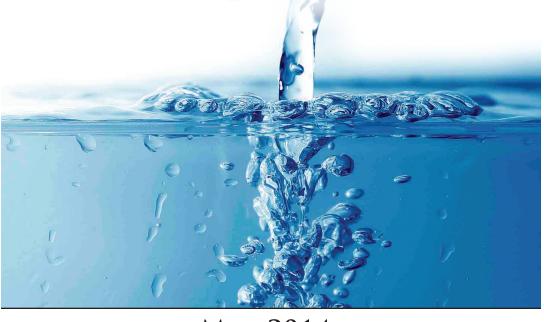
CHRISTOPHER NUSTAD

PSW ID#5103266

STJAMESWATER@TOSGOV.COM







**MAY 2014** 

# 2013 DRINKING WATER QUALITY REPORT - TABLE OF DETECTED PARAMETERS

Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Inorganic Contaminants							
Copper	No	June 2013	ND - 0.62 0.35 <sup>(1)</sup>	mg/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	June 2013	ND - 1.73 ND <sup>(1)</sup>	ug/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Barium	No	07/23/13	ND - 0.0098	mg/l	2	MCL = 2.0	Naturally occurring
Sodium	No	03/12/13	15.9 - 15.9	mg/l	n/a	No MCL <sup>(2)</sup>	Naturally occurring
Chloride	No	07/23/13	25.3 - 25.4	mg/l	n/a	MCL = 250	Naturally occurring
Iron	No	03/12/13	20 - 30	ug/l	n/a	MCL = 300	Naturally occurring
Nitrate	No	07/23/13	2.09 - 3.13	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Fluoride	No	03/12/13	ND - 0.1	ug/l	n/a	MCL = 100	Naturally occurring
Synthetic Organic Contaminants Including Pesticides and Herbicides							
None Detected							
Volatile Organic Contaminants and Disinfection By-Products							
Total Trihalomethanes	No	08/14/13	ND - 3.1	mg/l	0	MCL = 80	Disinfection By-Products
Bacteriological							
Total Coliform	No	06/25/13	1 positive out of 124 in 2013	positive or negative	n/a	MCL = Positive results in more than 5% of the monthly samples	Commonly found in the environment

### **Definitions:**

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

Maximum Contaminant Level Goal (MCLG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Milligrams per liter (mg/l) - Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/I) - Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Non-Detects (ND) - Laboratory analysis indicates that the constituent is not present.

pCi/L - pico Curies per Liter is a measure of radioactivity in water.

(1) - During 2013, the District collect 33 samples for lead and copper. The 90% level is presented in the table as the maximum result. The next round of samples will occur in 2016. If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. St. James Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at http://www.epa.gov/safewater/lead

2) - No MCL has been established for sodium. However, 20 mg/l is a recommended guideline for people on high restricted sodium diets and 270 mg/l for those on moderate sodium diets.

# DO I NEED TO TAKE SPECIAL PRECAUTIONS?

ALTHOUGH OUR DRINKING WATER MET OR EXCEEDED STATE AND FEDERAL REGULATIONS, SOME PEOPLE MAY BE MORE VULNERABLE TO DISEASE CAUSING MICROORGANISMS OR PATHOGENS IN DRINKING WATER THAN THE GENERAL IMMUNO-COMPROMISED PERSONS SUCH AS PERSONS WITH CANCER UNDERGOING CHEMOTHERAPY, PERSONS WHO HAVE UNDERGONE ORGAN TRANSPLANTS, PEOPLE WITH HIV/AIDS OR OTHER IMMUNE SYSTEM DISORDERS, SOME ELDERLY, AND INFANTS CAN BE PARTICULARLY AT RISK FROM INFECTIONS. THESE PEOPLE SHOULD SEEK ADVICE FROM THEIR HEALTH CARE PROVIDER ABOUT THEIR DRINKING WATER. EPA/CDC GUIDELINES ON APPROPRIATE MEANS TO LESSEN THE RISK OF INFECTION BY CRYPTOSPORIDIUM, GIARDIA AND OTHER MICROBIAL PATHOGENS ARE AVAILABLE FROM THE SAFE Drinking Water Hotline (800-426-4791). The EPA's website is WWW.EPA.GOV/SAFEWATER/, AND THE NY STATE DEPARTMENT OF HEALTH'S WEBSITE IS WWW.HEALTH.STATE.NY.US/

# WHY SAVE WATER AND HOW TO AVOID WASTING IT?

IN 2013, THE ST. JAMES WATER DISTRICT CONTINUED TO IMPLEMENT A WATER CONSERVATION PROGRAM IN ORDER TO MINIMIZE ANY UNNECESSARY WATER USE. RESIDENTS OF THE DISTRICT CAN IMPLEMENT THEIR OWN WATER CONSERVATION MEASURES SUCH AS RETROFITTING PLUMBING FIXTURES WITH FLOW RESTRICTORS. ADDING RAIN SENSORS TO AUTOMATIC LAWN SPRINKLERS, AND BY INSTALLING WATER SAVING TOILETS. THE HIGHEST WATER USERS GET A SEPARATE LETTER.

AUTOMATIC SPRINKLER SYSTEMS DRAW A TREMENDOUS AMOUNT OF WATER. PLEASE refrain from watering between 4am and 8am, and run only every third DAY. THIS WILL HELP ALLEVIATE PROBLEMS OF LOW PRESSURE DURING PEAK MORNING HOURS. SPRINKLERS MIGHT HAVE TO RUN MORE OFTEN DURING JULY AND AUGUST, AND MUCH LESS DURING THE SPRING AND FALL.

# WATER SYSTEM INFORMATION

OCCASIONALLY, A SURGE OF RUSTY WATER ENTERS OUR SYSTEM. WE FLUSH THE AFFECTED AREA IMMEDIATELY, AND FLUSH THE ENTIRE SYSTEM ONCE A YEAR, AT NIGHT, DURING A TWO WEEK PERIOD IN APRIL, POST CARDS ARE SENT OUT PRIOR TO EACH FLUSHING. OUR STAFF ATTENDS EDUCATIONAL SEMINARS EACH YEAR TO KEEP PACE WITH THE INCREASING STANDARDS IMPOSED ON THE WATER INDUSTRY, AND ARE MEMBERS OF THE LONG ISLAND WATER CONFERENCE AND AMERICAN WATER WORKS ASSOCIATION.

# ADDITIONAL TESTING

THE DISTRICT WAS NOT REQUIRED TO TAKE RADIOLOGICAL SAMPLES. ALSO, BECAUSE OF PAST TESTING, SUFFOLK COUNTY HAS BEEN WAIVED TESTING FOR THE FOLLOWING COMPOUNDS; ALDICARB, ALDICARB SULFOXIDE, CARBARYL, CARBOFURAN, 3-HYDROXYCARBOFURAN, METHOMYL, OXAMYL, ALACHLOR, ALDRIN, CHLORDANE, DIELDRIN, ENDRIN, HEPTACHLOR, HEPTACHLOR EPOXIDE, LINDANE, METHOXYCHLOR, DIBROMOCHLOROPROPANE, AND ETHYLENE DIBROMIDE.

EVERY THREE YEARS WE ARE REQUIRED TO PERFORM LEAD AND COPPER WATER SAMPLING FROM SPECIFIC HOUSES. HOUSES ARE CHOSEN ACCORDING TO THE NYS HEALTH DEPARTMENT REGULATIONS. THERE ARE NO HOUSES WITH LEAD SERVICES IN OUR DISTRICT, SO HOUSES WERE CHOSEN FROM THOSE BUILT JUST BEFORE THE LEAD SOLDER BAN WENT INTO EFFECT IN THE TOWN OF SMITHTOWN (1987). WE APPRECIATE THOSE HOMEOWNERS WHO PARTICIPATE IN THE TESTING SAMPLING PROGRAM. NO SAMPLE HAS EVER EXCEEDED THE LEAD ACTION LEVEL LIMIT OF 15 UG/L (PPB) OR THE COPPER ACTION LEVEL LIMIT OF 1.3 MG/L (PPM). IN OUR 2013 SAMPLING PROGRAM, THE 90TH PERCENTILE RESULT FOR LEAD WAS LESS THAN 1.0 PPB AND FOR COPPER 0.35 PPM. THE RANGE FOR LEAD WAS BETWEEN ND (NON-DETECTable) to 1.73 ppb. The range for copper was between ND and 0.62 ppm.

IF PRESENT, ELEVATED LEVELS OF LEAD CAN CAUSE SERIOUS HEALTH PROBLEMS, ESPECIALLY FOR PREGNANT WOMEN, INFANTS, AND YOUNG CHILDREN. IT IS POSSIBLE THAT LEAD LEVELS IN YOUR HOME MAY BE HIGHER THAN AT OTHER HOMES IN THE COMMUNITY AS A RESULT OF MATERIALS USED IN YOUR HOME'S PLUMBING. THE ST. JAMES WATER DISTRICT IS RESPONSIBLE FOR PROVIDING HIGH QUALITY DRINKING WATER, BUT CANNOT CONTROL THE VARIETY OF MATERIALS USED IN PLUMBING COMPONENTS. WHEN YOUR WATER HAS BEEN SITTING FOR SEVERAL HOURS. YOU CAN MINIMIZE THE POTENTIAL FOR LEAD EXPOSURE BY FLUSHING YOUR TAP FOR 30 SECONDS TO 2 MINUTES BEFORE USING WATER FOR DRINKING OR COOKING. IF YOU ARE CONCERNED ABOUT LEAD IN YOUR WATER, YOU MAY WISH TO HAVE YOUR WATER TESTED. INFORMATION ON LEAD IN DRINKING WATER, TESTING METHODS, AND STEPS YOU CAN TAKE TO MINIMIZE EXPOSURE IS AVAILABLE FROM THE SAFE DRINKING WATER HOTLINE (1-800-426-4791) OR AT HTTP//WWW.EPA.GOV/SAFEWATER/LEAD.

